

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/005,202

DATE: 01/02/2002
TIME: 09:43:36

Input Set : A:\PTO.AMC.txt
Output Set : N:\CRF3\01022002\J005202.raw

4 <110> APPLICANT: Allen, Keith D.
6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING INWARDLY
7 RECTIFYING POTASSIUM CHANNEL (Kir5.1) GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-902
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/005,202
C--> 12 <141> CURRENT FILING DATE: 2001-12-04
12 <150> PRIOR APPLICATION NUMBER: US 60/254,888
13 <151> PRIOR FILING DATE: 2000-12-11
15 <160> NUMBER OF SEQ ID NOS: 4
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1257
21 <212> TYPE: DNA
22 <213> ORGANISM: Mus musculus
24 <400> SEQUENCE: 1
25 atgagctatt acggaagtag ctaccggatt gtcaatgtgg actccaaata tccaggctat 60
26 cctccagagc atgccatcgc tgagaagaga agagcaagaa ggcgcttgct ccacaaagat 120
27 ggcagctgtc atgtgtactt taaacacatt ttggagaaat gggggagcta catggttgat 180
28 atttttacca cctcttggtgga taccaaagtg cgccatattg tcataatatt ttctctgtct 240
29 tacattctct cctggttgat atttggttcc atattttggc tcatagcctt tcatcacgga 300
30 gacctattaa gcatccaga tatcacccct tgtgttgaca acgtgcattc atttaacggct 360
31 gcatttttat tctccctgga gacccagacc accattggat acggttacgc ctgtgtcacc 420
32 gaagagtgtc ctgtggctgt actgacagt atccttcagt ccactcctag ctgcacata 480
33 aacaccttca tcattggagc agccttggtgca aagatggcaa ctgcccgga gagagcccag 540
34 accatacgct tcagctattt tgccctcatt ggtatgagag acgggaagcc ttgcctcatg 600
35 tggcgcatag gtgacttccg accaaacat gtggttagag gcacggtgag agcccaactt 660
36 ctgcgctatt cagaagacag tgaagggagg atgacgatgg cgtttaaaga cctcaaaact 720
37 gtcaatgacc agataatcct ggtaactcca gtgactattg tccatgaaat tgaccatgag 780
38 agccctctgt atgcccttga ccgcaaggca gtggccaaag ataatttcga gattctggtg 840
39 acatttattt atactgtgtg ttccactggg acatccacc agtccagaag ttctacatc 900
40 ccagagaaaa ttctctgggg ccacaggttt catgatgtat tggaaagtga gagaaagtac 960
41 tacaaggtga actgcttgca gtttgaagga agcgtggaag tctacgcccc cttttgcagt 1020
42 gccaaacac tgactgtgaa ggaccaaaca ctcaacaact ttgagaaaaa ctgccctgcc 1080
43 cgagatgcct gcaattctga caccaacacc aggaggcggt ccttcacgcg agttgcccgt 1140
44 gtgagcagct gtgagacccc agaggagacc gtcctgtccc cacaagatga atgtgaagg 1200
45 atgcctctatc agaaaagccct cctgacttta aataggatct ccatggaatc ccagatg 1257
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 419
49 <212> TYPE: PRT
50 <213> ORGANISM: Mus musculus
52 <400> SEQUENCE: 2
53 Met Ser Tyr Tyr Gly Ser Ser Tyr Arg Ile Val Asn Val Asp Ser Lys
54 1 5 10 15
55 Tyr Pro Gly Tyr Pro Pro Glu His Ala Ile Ala Glu Lys Arg Arg Ala
56 20 25 30
57 Arg Arg Arg Leu Leu His Lys Asp Gly Ser Cys Asn Val Tyr Phe Lys
58 35 40 45

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RECEIVED

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```
59 His Ile Phe Gly Glu Trp Gly Ser Tyr Met Val Asp Ile Phe Thr Thr
60      50      55      60
61 Leu Val Asp Thr Lys Trp Arg His Met Phe Ile Ile Phe Ser Leu Ser
62 65      70      75      80
63 Tyr Ile Leu Ser Trp Leu Ile Phe Gly Ser Ile Phe Trp Leu Ile Ala
64      85      90      95
65 Phe His His Gly Asp Leu Leu Ser Asp Pro Asp Ile Thr Pro Cys Val
66      100      105      110
67 Asp Asn Val His Ser Phe Thr Ala Ala Phe Leu Phe Ser Leu Glu Thr
68      115      120      125
69 Gln Thr Thr Ile Gly Tyr Gly Tyr Arg Cys Val Thr Glu Glu Cys Ser
70      130      135      140
71 Val Ala Val Leu Thr Val Ile Leu Gln Ser Ile Leu Ser Cys Ile Ile
72 145      150      155      160
73 Asn Thr Phe Ile Ile Gly Ala Ala Leu Ala Lys Met Ala Thr Ala Arg
74      165      170      175
75 Lys Arg Ala Gln Thr Thr Ile Arg Phe Ser Tyr Phe Ala Leu Ile Gly Met
76      180      185      190
77 Arg Asp Gly Lys Pro Cys Leu Met Trp Arg Ile Gly Asp Phe Arg Pro
78      195      200      205
79 Asn His Val Val Glu Gly Thr Val Arg Ala Gln Leu Leu Arg Tyr Ser
80      210      215      220
81 Glu Asp Ser Glu Gly Arg Met Thr Met Ala Phe Lys Asp Leu Lys Leu
82 225      230      235      240
83 Val Asn Asp Gln Ile Ile Leu Val Thr Pro Val Thr Ile Val His Glu
84      245      250      255
85 Ile Asp His Glu Ser Pro Leu Tyr Ala Leu Asp Arg Lys Ala Val Ala
86      260      265      270
87 Lys Asp Asn Phe Glu Ile Leu Val Thr Phe Ile Tyr Thr Gly Asp Ser
88      275      280      285
89 Thr Gly Thr Ser His Gln Ser Arg Ser Ser Tyr Ile Pro Arg Glu Ile
90      290      295      300
91 Leu Trp Gly His Arg Phe His Asp Val Leu Glu Val Lys Arg Lys Tyr
92 305      310      315      320
93 Tyr Lys Val Asn Cys Leu Gln Phe Glu Gly Ser Val Glu Val Tyr Ala
94      325      330      335
95 Pro Phe Cys Ser Ala Lys Gln Leu Asp Trp Lys Asp Gln Gln Leu Asn
96      340      345      350
97 Asn Leu Glu Lys Thr Ser Pro Ala Arg Gly Ser Cys Asn Ser Asp Thr
98      355      360      365
99 Asn Thr Arg Arg Arg Ser Phe Ser Ala Val Ala Val Val Ser Ser Cys
100      370      375      380
101 Glu Asn Pro Glu Glu Thr Val Leu Ser Pro Gln Asp Glu Cys Lys Glu
102 385      390      395      400
103 Met Pro Tyr Gln Lys Ala Leu Leu Thr Leu Asn Arg Ile Ser Met Glu
104      405      410      415
105 Ser Gln Met
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 200
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```
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Targeting vector
117 <400> SEQUENCE: 3
118 agctacagga tcgtcaatgt ggactccaaa tatccaggct atcctccaga gcatgccatc 60
119 gctgagaaga gaagagcaag aaggcgcttg ctccacaaag atggcagctg taatgtgtac 120
120 ttttaaacaca tttttggaga atgggggagc tacatggttg atatttttac cactcttgtg 180
121 gataccaaagt ggcgccatat                                     200
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 200
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Targeting vector
131 <400> SEQUENCE: 4
132 cgaagagtgct tctgtggctg tactgacagt gatccttcag tccatcctca gctgcatcat 60
133 aaacaccttc atcattggag cagccttggc aaagatggca actgcccgga agagagccca 120
134 gaccatacgc ttcagctatt ttgccctcat tggatatgaga gacgggaagc ttgcctcat 180
135 gtggcgcata ggtgacttcc                                     200
```

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date